



Cisco SFS 3504 Multifabric Server Switch Installation and Configuration Note

This document describes how to install and configure the Cisco SFS 3504 Multifabric Server Switch. For details about the Cisco SFS 3504 Multifabric Server Switch and switch components, see the *Cisco SFS 3504 Multifabric Server Switch Hardware Installation Guide*.

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Safety Overview

The warnings in this section, along with warnings that appear within the text of this document, apply to the installation and configuration of the Cisco SFS 3504 Server Switch. For warning translations and safety information, see the [Regulatory Compliance and Safety Information for the Cisco Server Fabric Switches: 7000D, 7000P, 7008P, 7012, 7024, 3012R, and 3504](#).



Warning

IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

SAVE THESE INSTRUCTIONS



Warning

Two people are required to lift the chassis. Grasp the chassis underneath the lower edge and lift with both hands. To prevent injury, keep your back straight and lift with your legs, not your back. To prevent damage to the chassis and components, never attempt to lift the chassis with the handles on the power supplies or on the interface processors, or by the plastic panels on the front of the chassis. These handles were not designed to support the weight of the chassis. Statement 5



Warning

During this procedure, wear grounding wrist straps to avoid ESD damage to the card. Do not directly touch the backplane with your hand or any metal tool, or you could shock yourself. Statement 94



Warning

Voltage is present on the backplane when the system is operating. To reduce risk of an electric shock, keep hands and fingers out of the power supply bays and backplane areas. Statement 166



Warning

Read the installation instructions before connecting the system to the power source. Statement 1004



Warning

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
 - When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
 - If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.
- Statement 1006



Warning

This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security.

Statement 1017



Warning

This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available. Statement 1024



Warning

Only trained and qualified personnel should be allowed to install, replace, or service this equipment.

Statement 1030



Warning

Ultimate disposal of this product should be handled according to all national laws and regulations.

Statement 1040



Warning

This equipment must be installed and maintained by service personnel as defined by AS/NZS 3260. Incorrectly connecting this equipment to a general-purpose outlet could be hazardous. The telecommunications lines must be disconnected 1) before unplugging the main power connector or 2) while the housing is open, or both. Statement 1043



Warning

This product requires short-circuit (overcurrent) protection, to be provided as part of the building installation. Install only in accordance with national and local wiring regulations. Statement 1045



Warning

Use of controls, adjustments, or performing procedures other than those specified may result in hazardous radiation exposure. Statement 1057

Parts List

The Cisco SFS 3504 Server Switch kit contains the following parts:

- One 5-slot multifabric server switch chassis
- One InfiniBand switch card
- One to four gateway modules, depending upon your configuration:
 - Ethernet gateway Product ID: SFS-3500-ENGW-1G
 - Fibre Channel gateway Product ID: SFS-3500-FCGW-4G
- Zero to three gateway blanking panels for I/O slots, depending upon your configuration
- One or two power supplies, depending upon your configuration
- Zero or one power supply blanking panel, depending upon your configuration

- An accessory kit containing the following:
 - One or two power cords, depending upon your configuration
 - One console cable connector kit
 - Two fixed rack ear brackets
 - Two adjustable rack ear brackets
 - One disposable ESD grounding wrist strap
 - One rack-mount hardware kit with six M4x 8 mm flat-head Phillips screws
 - One copy of this *Cisco SFS 3504 Multifabric Server Switch Installation and Configuration Note* document
 - One copy of the [Regulatory Compliance and Safety Information for the Cisco Server Fabric Switches: 7000D, 7000P, 7008P, 7012, 7024, 3012R, and 3504](#) document
 - One standard warranty package

Required Tools

The following tools are required to install the Cisco SFS 3504 Server Switch:

- Number 1 Phillips screwdriver
- Number 2 Phillips screwdriver
- Eight screws, standard for your rack
- Eight rack nuts, standard for your rack
- Antistatic mat or foam pad to support the switch module and the gateways
- Your own ESD-prevention equipment or the included disposable ESD grounding wrist strap

Installation Guidelines

Use the following guidelines when installing a Cisco SFS 3504 Server Switch:

- Make two people available for lifting the chassis onto the rack.
- Verify that the rack environment provides sufficient ventilation:
 - Maintain ambient airflow throughout the site to ensure normal operation.
 - If installing in an enclosed cabinet, ensure that the cabinet has adequate ventilation, and allow at least 2.5 inches (6.4 cm) of clearance between the chassis vents and cabinet doors.
 - If placing the switch adjacent to a device that exhausts air toward the switch, the horizontal distance between the devices should be a minimum of 6 inches (15.2 cm).
 - Ensure that cables do not obstruct the airflow through the chassis.
- Ground yourselves using approved ESD grounding wrist straps.
- Read the [“Safety Overview” section on page 2](#), and observe the following cautions:

**Caution**

Do not lift the Cisco SFS 3504 Server Switch chassis by the front (power-fan module end) and back (cable end). Lift the unit by the sides to prevent damage.

Preparing to Install

To prepare for your installation, unpack the product, ensure that all necessary components are available, and perform the following steps:

- Step 1** Remove all components from the Cisco SFS 3504 Server Switch shipping container, and identify them according to the [“Parts List” section on page 3](#).



Warning

Two people are required to lift the chassis. Grasp the chassis underneath the lower edge and lift with both hands. To prevent injury, keep your back straight and lift with your legs, not your back. To prevent damage to the chassis and components, never attempt to lift the chassis with the handles on the power supplies or on the interface processors, or by the plastic panels on the front of the chassis. These handles were not designed to support the weight of the chassis. Statement 5

- Step 2** Place the chassis on a secure, clean surface.

- Step 3** Verify that you have the parts for the rail kit to mount the switch on the rack (parts shipped with the Cisco SFS 3504 Server Switch in the accessory kit), or verify that you have the parts for the optional Cisco Server Fabric Switches Rack Shelf Kit (ordered and shipped separately, product number SFS-7008P-RKIT=).

- Step 4** Verify that you have available all Ethernet gateways, Fibre Channel gateways, and blanking panels to install in your system, as appropriate for your configuration.



Caution

Prepare a management workstation (not included), such as a PC running terminal-emulation software (not included), a straight-through M/F DB-9 serial cable (included), and a DB-9 to RJ45 adaptor (included).

Installing the Cisco SFS 3504 Server Switch Components

According to your specific order, Cisco SFS 3504 Server Switch components are pre-installed in your Cisco SFS 3504 Server Switch chassis before shipping, including the InfiniBand switch card, Ethernet and Fibre Channel gateway modules, and power-fan modules. You can, if required for your configuration, add or replace these components before mounting the Cisco SFS 3504 Server Switch chassis or add additional components at a later date.



Note

Whenever possible, we recommend that you install any additional components before you mount the Cisco SFS 3504 Server Switch in the rack or on the optional shelf.

Installing the Cisco SFS 3504 Server Switch

You can install the switch in the rack with the power-fan modules flush to the front of the rack or with the data connection cables mounted flush to the front.

This section contains the following topics:

- [Installing with the Power-fan Modules Flush-front, page 6](#)
- [Installing with the Data Connection Cables Flush-front, page 8](#)



Note

Install the Cisco SFS 3504 Server Switch on a rack using the rail kit that is included with the chassis or on the optional shelf that is ordered and shipped separately (product number SFS-7008P-RKIT=).

Installing with the Power-fan Modules Flush-front

To install the Cisco SFS 3504 Server Switch on a rack so that the power-fan module end is flush mounted to the front rack posts, perform the following steps:

Step 1 Open the bag that contains the mounting hardware.

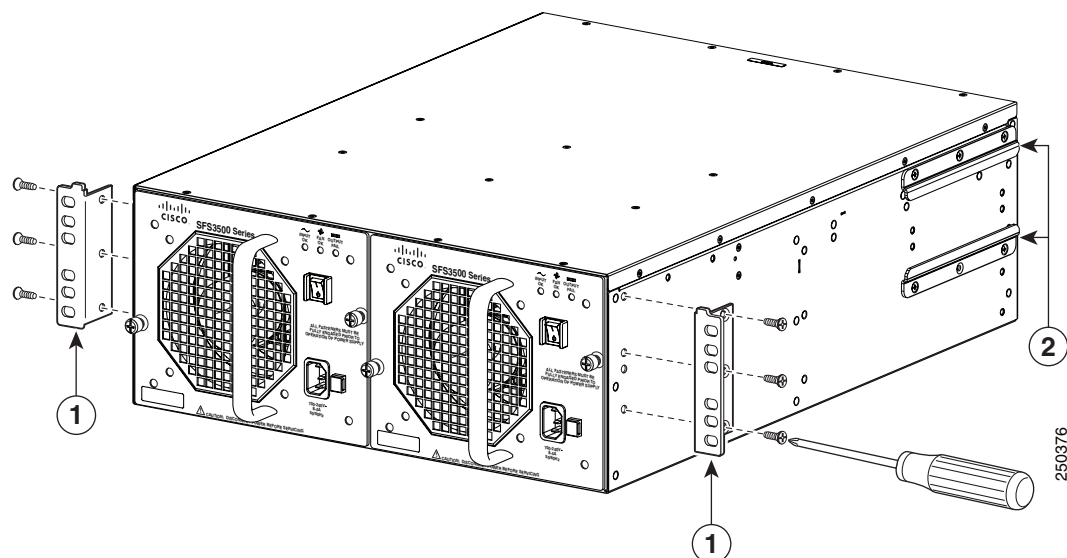


Note

To mount a Cisco SFS 3504 Server Switch on a rack, use eight screws and eight rack nuts. These screws and nuts must be supplied by the customer, based upon compatibility with the rack.

Step 2 Attach the two rack ear brackets to the power-fan module end of the chassis using a Phillips screwdriver and the six M4 x 8 mm flat-head screws provided (three on each side), as shown in [Figure 1](#). Firmly tighten the screws on the rack ear brackets to secure them to the chassis.

Figure 1 Attaching the Rack Ear Brackets at the Power-Fan Module End



1	Rack ear brackets	2	Guide rails (pre-attached)
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- Step 3** Slide the Cisco SFS 3504 Server Switch between the rack posts (see [Figure 2](#)), until the rack ear brackets on the front of the chassis make contact with the front rack posts.

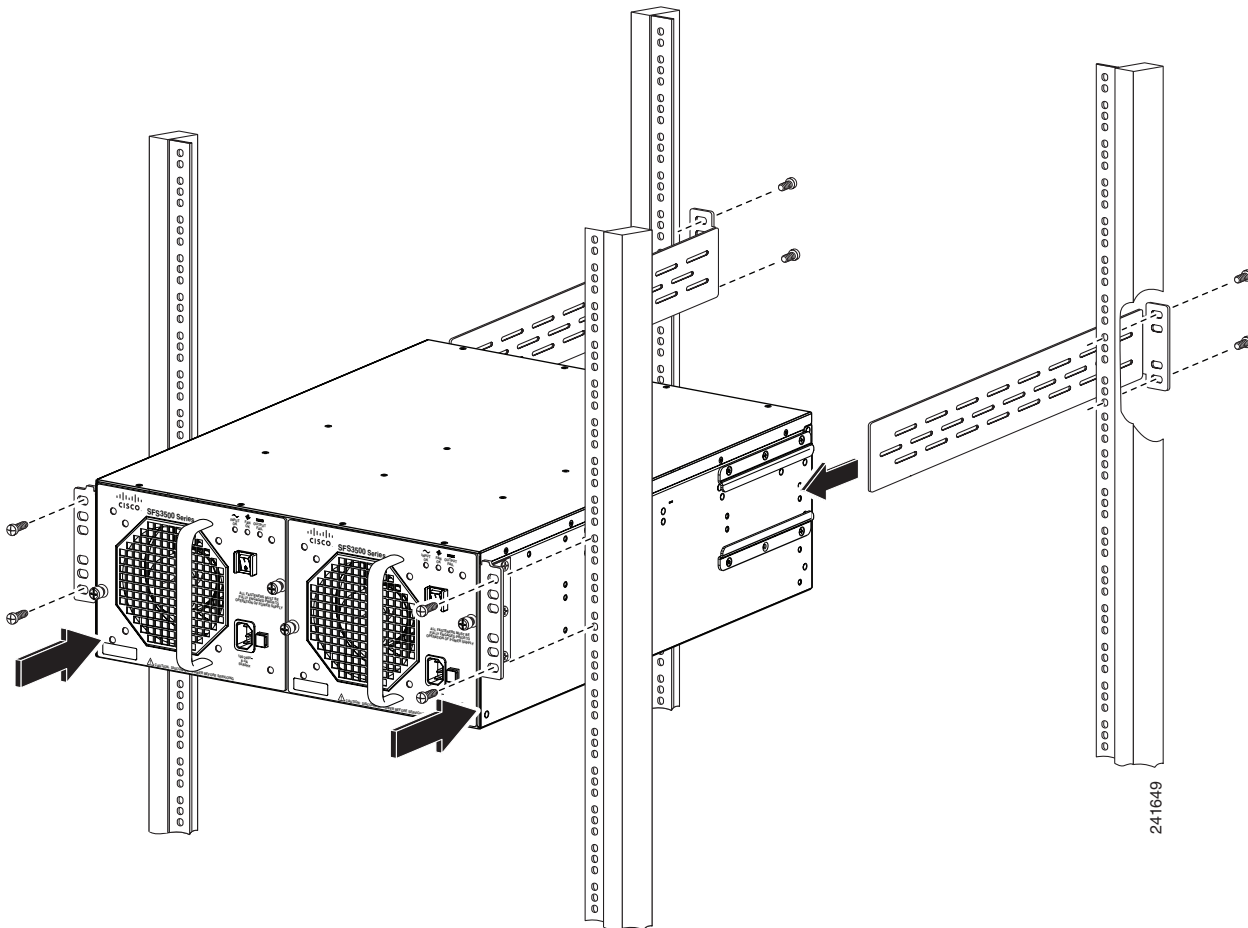
Use four customer-supplied fasteners (two for each side) and the appropriate screwdriver (not included in the accessory kit) to firmly secure the rack ear brackets to the front rack posts.



Note

The handle on the AC power-fan module and/or the blanking panel can be used as an aid to support the power-fan module side of the chassis during rack-mounting installation.

Figure 2 *Sliding the Cisco SFS 3504 Server Switch Between Rack Posts and Inserting Brackets*



- Step 4** Slide the two adjustable brackets, from the back, between each of the guide rails that are attached on either side of the Cisco SFS 3504 Server Switch at the data connection end. (See [Figure 2](#).)

- Step 5** Adjust the adjustable brackets so that the holes in the brackets align with the holes in the rack posts, and secure the brackets to the rack posts. (See [Figure 2](#).)

Use four standard rack screws (two for each bracket; rack screws not included in the accessory kit) to secure the adjustable brackets to the rear rack posts.

**Note**

The least amount of protrusion for the adjustable brackets must be 1/2 inch beyond the inside end of the guide rail. The adjustable bracket should always be fully supported by the guide rails.

Installing with the Data Connection Cables Flush-front

To install the Cisco SFS 3504 Server Switch on a rack so that the data connection cables are flush-front on the rack posts, perform the following steps:

- Step 1** Open the bag that contains the mounting hardware.

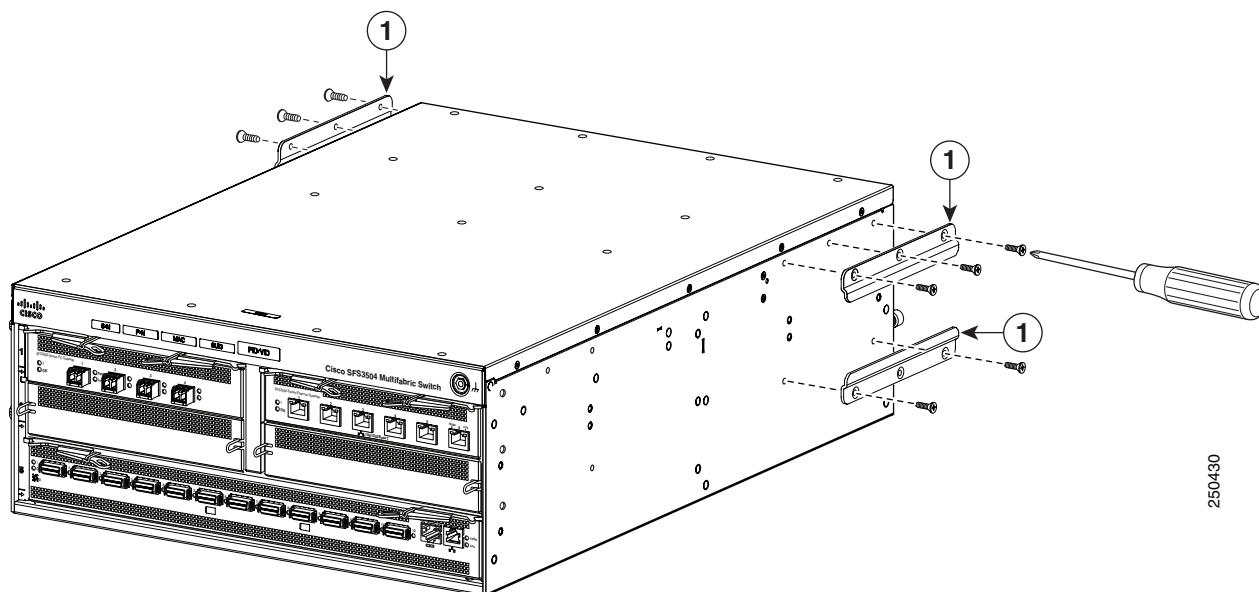
**Note**

To mount a Cisco SFS 3504 Server Switch on a rack, use eight screws and eight rack nuts. These must be supplied by the customer, based upon the compatibility of the screws and nuts with the specific racks.

- Step 2** Remove the two guide rails that are attached to either side of the Cisco SFS 3504 Server Switch at the data-connection end, and attach the guide rails similarly at the power-fan modules end. (See [Figure 3](#).)

Use a Phillips screwdriver to unscrew the guide rails, and secure them at the new locations with the screws that you just removed.

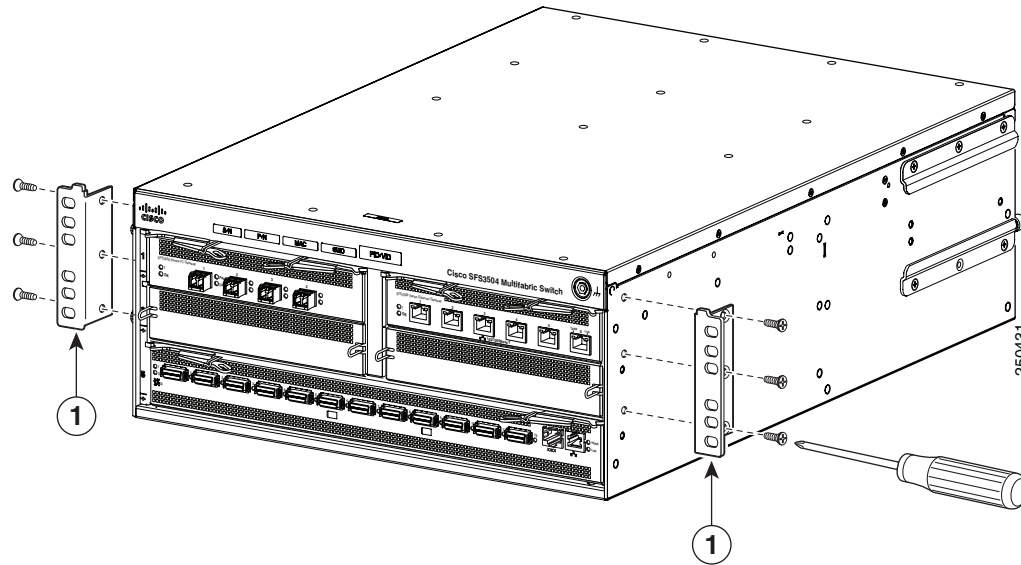
Figure 3 Attaching Guide Rails at the Power-Fan Module End



1 Guide rails

- Step 3** Attach the two rack ear brackets to the data-connection end of the chassis using a Phillips screwdriver and the six M4 x 8 mm screws provided (three for each bracket), as shown in [Figure 4](#). Use the three holes of the rack ear brackets. Firmly tighten the screws on the rack ear brackets to secure them to the chassis.

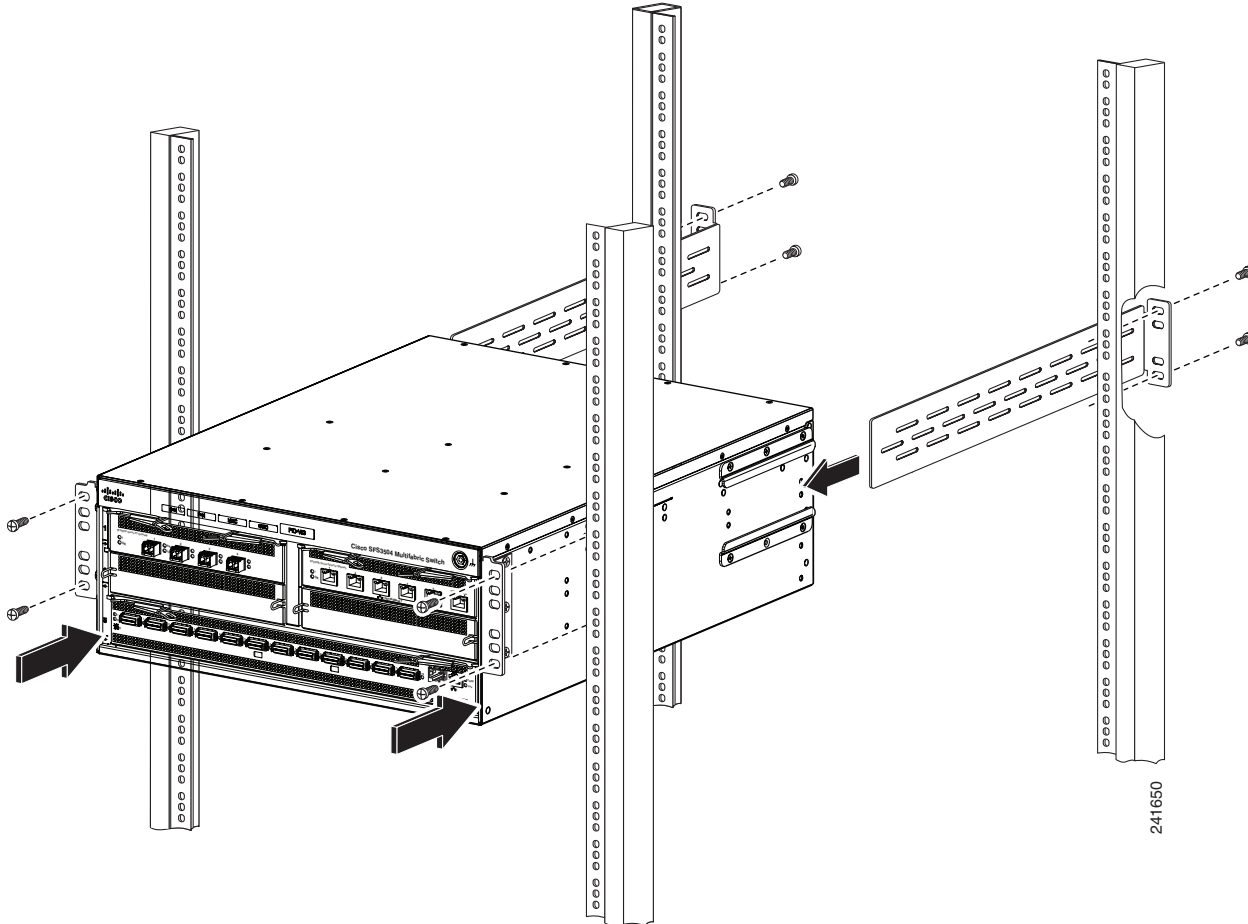
Figure 4 Attaching the Rack Ear Brackets to the Data Connection End



1	Rack ear brackets
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- Step 4** Slide the Cisco SFS 3504 Server Switch between the rack posts (see [Figure 5](#)) until the rack ear brackets on the chassis make contact with the front rack posts. Use four customer-supplied fasteners (two for each side) and the appropriate screwdriver (not included in the accessory kit) to firmly secure the rack ear brackets to the front rack posts.

Figure 5 *Sliding the Cisco SFS 3504 Server Switch Between Rack Posts and Inserting Brackets*



- Step 5** Slide the two adjustable brackets, from the back, between each of the guide rails that are attached on either side of the Cisco SFS 3504 Server Switch at the power-fan modules end. (See [Figure 5](#).)
- Step 6** Adjust the adjustable brackets so that the holes in the brackets align with the holes in the rack posts, and secure the adjustable brackets to the rack posts. (See [Figure 5](#).)
- Use four standard rack screws (two for each bracket; rack screws not included in the accessory kit) to secure the adjustable brackets to the rear rack posts.

Verifying the Installation

To verify your installation and configure basic connectivity, you must power-on the Cisco SFS 3504 Server Switch and configure it through the serial console port from a terminal or workstation.



Warning

Hazardous voltage or energy is present on the backplane when the system is operating. Use caution when servicing. Statement 1034

To verify the installation of your Cisco SFS 3504 Server Switch, perform the following steps:

-
- Step 1** Use the serial cable (provided) to connect the serial console port of the InfiniBand switch card in slot 5 of your Cisco SFS 3504 Server Switch to a terminal or to a workstation that runs terminal-emulation software.
- Step 2** Launch a terminal session with the following parameters
- Baud: 9600 bps
 - Data Bits: 8
 - Parity: None
 - Stop Bits: 1
 - Flow Control: None
- Step 3** Connect a power cord to your Cisco SFS 3504 Server Switch, and then plug the cord into an appropriate power source. The Cisco SFS 3504 Server Switch boots.
- Step 4** After the system boots, press the **Enter** key several times to display the CLI login prompt.
- Login:
- Step 5** Enter **super** as your user ID and password to log in as a user with administrative privileges.
- Login: **super**
 Password: **super**
 SFS-3504>

Step 6 Enter the **show card** command to verify that the switch is operational and that the system acknowledges the new module and has brought it online. If the output of the **show card** command shows the oper code as “normal” and boot status as “success,” as shown in the example below, proceed to the next step in configuring the switch.

SFS-3504> **show card**

```

=====
                        Card Information
=====
      admin              oper              admin  oper  oper
slot type              type              status status code
-----
2   fc4port4G          fc4port4G          up      up   normal
5*  controllerIb12port4xDDR  controllerIb12port4xDDR  up      up   normal

=====
                        Card Boot Information
=====

      boot      boot      boot
slot stage      status      image
-----
2   done        success      image-a:SFS_OS-2.10.0/build585
5   done        success      image-a:SFS_OS-2.10.0/build585

=====
                        Card Seeprom
=====
      product          pca          pca          fru
slot serial-number    serial-number  number       number
-----
2   JBL07014804      JBL07014804   73-11051-02   68-2893-01
5   JAB111902Y9      JAB111902Y9   73-11049-02   68-2890-02

```

If the output of the **show card** command shows otherwise, enter the **show diagnostic ?** command to determine whether or not a hardware failure has occurred. If the output shows a hardware failure, contact your Cisco technical support representative.

Configuring the Cisco SFS 3504 Server Switch

This section assumes that you have verified the installation. At the end of the verification process, the Cisco SFS 3504 Server Switch automatically obtains the IP address from Dynamic Host Configuration Protocol (DHCP) if the DHCP server is configured. This section describes how to configure the Cisco SFS 3504 Server Switch and includes the following topics:

- [Obtaining an IP Address from the DHCP Server for Ethernet Management, page 13](#)
- [Configuring a Static IP Address for Ethernet Management, page 13](#)
- [Configuring the System Clock, page 17](#)
- [Configuring an NTP Server, page 18](#)
- [Launching the Chassis Manager \(Optional GUI Interface\), page 19](#)
- [Installing the Element Manager GUI \(Optional\), page 20](#)

Obtaining an IP Address from the DHCP Server for Ethernet Management

This section describes how to obtain an IP address from the DHCP server by default.



Note

DHCP is enabled by default on the Cisco SFS 3504 Server Switch.

To obtain an IP address using the default enabled DHCP, you must obtain the MAC address. The MAC address is printed on a label on your Cisco SFS 3504 Server Switch in the following format:

AA:BB:CC:DD:EE.

Use the MAC address to configure your DHCP server to allocate an IP address of your choice to the SFS 3504 switch management interface. Otherwise, the DHCP server (if present) allocates the first available IP address from the designated pool of addresses. In the latter case you can find out which address was allocated by logging in to the CLI on the serial console and entering the **show interface mgmt-eth** command. See the *Cisco SFS Product Family Command Reference* for additional details about CLI commands.

Use the IP address, to Telnet to the Cisco SFS 3504 Server Switch and perform tasks such as configuring the system clock and configuring an NTP server as described in the [“Configuring the System Clock” section on page 17](#) and [“Configuring an NTP Server” section on page 18](#).

Configuring a Static IP Address for Ethernet Management



Note

If a DHCP server is not available, then use this method to configure an IP address.

To configure a static IP address for an Ethernet Management interface, you must first connect the serial console port. You can connect the serial console port to a PC serial port for local administrative access to the Cisco SFS 3504 Server Switch. A terminal emulation software product, such as HyperTerminal, makes communication between the Cisco SFS 3504 Server Switch and your PC possible during setup and configuration.

To connect the console port to a PC, perform the following steps:

- Step 1** Connect the cable from the serial console port on the controller module, located on the rear panel of the Cisco SFS 3504 Server Switch, to your terminal or management workstation. Use the straight-through M/F serial cable, which is provided in the package.
- Step 2** Open a terminal emulation window using a program such as Hyper-Terminal for Windows.
- Step 3** Configure the baud rate and character format of the PC terminal emulation program to match the following management port default characteristics:
 - Baud: 9600 bps
 - Data Bits: 8
 - Parity: None
 - Stop Bits: 1
- Step 4** Connect the supplied DB-9/RJ-45 female adapter or DB-25/RJ-45 female adapter (depending on your PC connection) to the PC serial port.

- Step 5** Connect one end of the supplied console cable (a flat rollover RJ-45 to RJ-45 cable) to the serial console port. Connect the other end to the DB-9/RJ-45 female adapter or DB-25/RJ-45 adapter at the PC serial port.

After you connect the serial console port, you may configure a static IP address for the Ethernet management interface by performing the following steps:

- Step 1** Wait for the login prompt.

Login:

- Step 2** Enter the username and password. The default username is **super**, and the default password is **super**.

```
Login: super
Password: super
SFS-3504>
```

- Step 3** Enter the **enable** command to enter privileged EXEC mode:

```
SFS-3504> enable
SFS-3504#
```

- Step 4** Enter the **configure** command to enter configuration mode:

```
SFS-3504# configure
SFS-3504(config)#
```

- Step 5** Enter the **interface mgmt-ethernet** command to enter the config-if-mgmt-ethernet mode:

```
SFS-3504(config)# interface mgmt-ethernet
SFS-3504(config-if-mgmt-ethernet)#
```

- Step 6** Enable the static address option, which turns off the default-enabled DHCP:

```
SFS-3504(config)# address-option static
```

- Step 7** Enter the IP address of the management interface, followed by the netmask, which enables the optional static address:

```
SFS-3504(config-if-mgmt-ethernet)# ip address ip_address netmask
```

- Step 8** Set the default gateway for the management interface. See your system administrator for a gateway address.

```
SFS-3504(config-if-mgmt-ethernet)# gateway ip_address
```

- Step 9** Enable the management interface by entering the **no shutdown** command:

```
SFS-3504(config-if-mgmt-ethernet)# no shutdown
```

- Step 10** Return to privileged EXEC mode by entering the **exit** command twice, and save the configuration to preserve it between reboots by entering the **copy running-config startup-config** command:

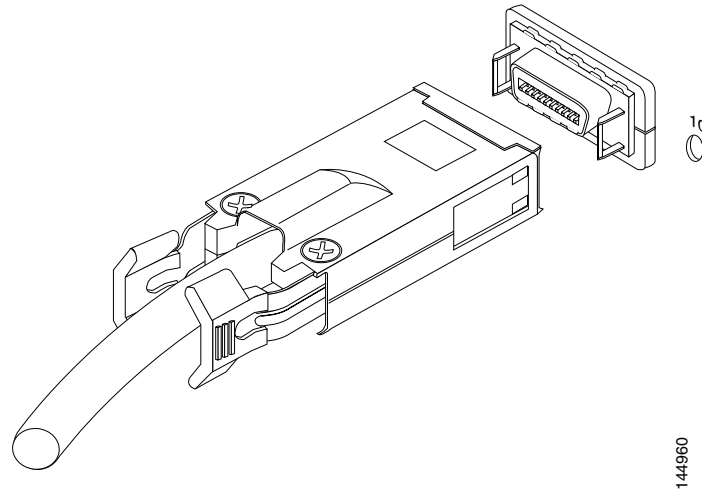
```
SFS-3504(config-if-mgmt-ethernet)# exit
SFS-3504(config)# exit
SFS-3504# copy running-config startup-config
```

Connecting InfiniBand Hosts

This section provides a brief overview for connecting your IB hosts. For detailed instructions, see the documentation for the specific HCA.

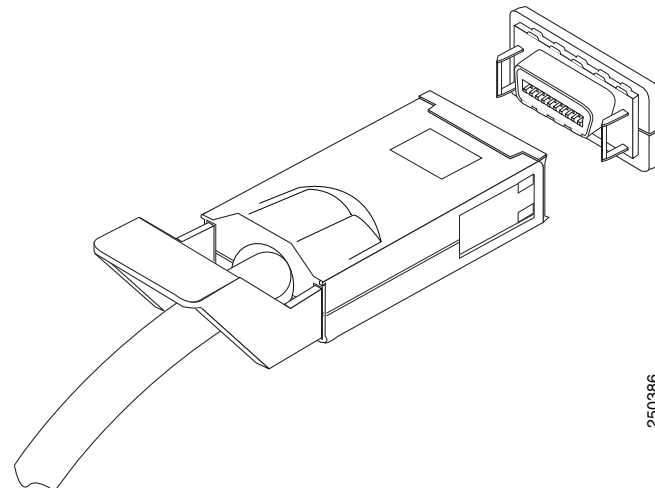
Use IB cables to connect the HCA in your host to the IB switch module of your Cisco SFS 3504 Server Switch. To insert an IB cable with a pinch connector, pinch both sides of the back of the connector, and push the connector into the interface. (See [Figure 6](#).)

Figure 6 *InfiniBand Cable with Pinch Connector*



To insert an IB with a pull connector, push the connector into the interface, and push the latch until it is engaged after it is in the interface. An alternative method of plugging in a pull connector IB cable is to push the latch first, and then insert the connector until you hear a click. (See [Figure 7](#).)

Figure 7 *InfiniBand Cable with Pull Connector*

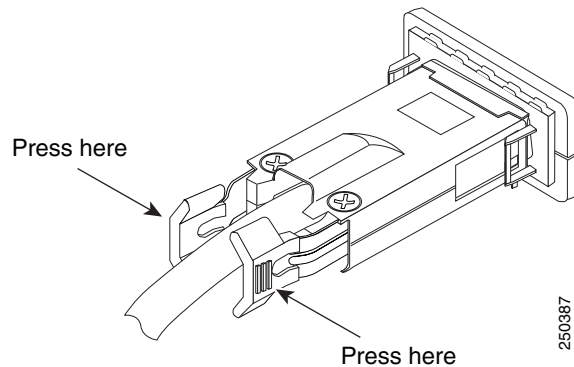


**Note**

If your host does not provide enough free space around a given IB port, verify that your IB cable connector engages completely. Wiggle your connector back and forth to be sure that both sides of the connector have locked firmly into place.

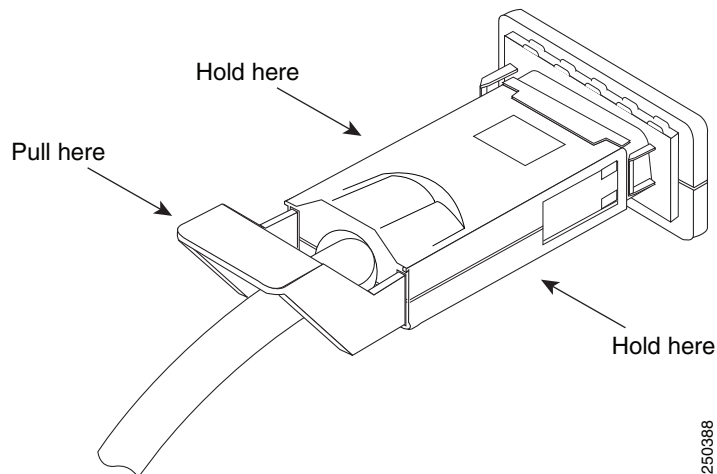
To remove a cable with a pinch connector, pinch both sides of the back of the connector, and pull the connector away from the port. (See [Figure 8](#).)

Figure 8 *Removing a Pinch Connector*



To remove a cable with a pull connector, grasp the connector with one hand, push it toward the port, and then pull the latch away from the port with your other hand while gently wiggling the connector away from the port. (See [Figure 9](#).)

Figure 9 *Removing a Pull Connector*



Configuring the System Clock

You can configure the system clock to show the time, date, and time zone, and you can configure daylight savings time, if appropriate for your location. For more information, see the *Cisco SFS Product Family Command Reference*.

Setting the System Clock

To set the system clock, perform the following steps:

-
- Step 1** Enter the **enable** command to enter privileged EXEC mode:
- ```
SFS-3504> enable
SFS-3504#
```
- Step 2** Enter the **clock set** command with the time (hour, minute, and second) and date (day, month, year) that you want to apply, as shown in this example which sets the time to 7:22 PM and 10 seconds on the 25th of May, 2015:
- ```
SFS-3504# clock set 19:22:10 25 05 15
```
- Step 3** Save the configuration to preserve it between reboots by entering the **copy running-config startup-config** command:
- ```
SFS-3504# copy running-config startup-config
```
- 

### Setting the Time Zone

To define and set the time zone on your server switch, perform the following steps:

- 
- Step 1** Enter the **enable** command to enter privileged EXEC mode:
- ```
SFS-3504> enable
SFS-3504#
```
- Step 2** Enter the **configure** command to enter configuration mode:
- ```
SFS-3504# configure
SFS-3504(config)#
```
- Step 3** Enter **clock timezone** command. The following example shows setting the time zone to Pacific Standard Time.
- ```
SFS-3504(config)# clock timezone PST 8 0
```
- Step 4** Save the configuration to preserve it between reboots by entering the **copy running-config startup-config** command:
- ```
SFS-3504(config)# exit
SFS-3504# copy running-config startup-config
```
-

## Setting Daylight Savings Time

To configure daylight savings time, perform the following steps:

- Step 1** Enter the **enable** command to enter privileged EXEC mode:

```
SFS-3504> enable
SFS-3504#
```

- Step 2** Enter the **configure** command to enter configuration mode:

```
SFS-3504# configure
SFS-3504(config)#
```

- Step 3** Enter **clock summer-time** command:

```
SFS-3504(config)# clock summer-time
```

- Step 4** Save the configuration to preserve it between reboots by entering the **exit** command to return to privileged EXEC mode and by entering the **copy running-config startup-config** command:

```
SFS-3504(config)# exit
SFS-3504# copy running-config startup-config
```

To undo the daylight savings time configuration and revert to standard local time, use the **no** form of the **clock summer-time** command.

## Configuring an NTP Server

To configure your Cisco SFS 3504 Server Switch to obtain time and date information from a Network Time Protocol (NTP) server you must assign an NTP server. To assign an NTP server, perform the following steps:

- Step 1** Enter the **enable** command to enter privileged EXEC mode.

```
SFS-3504> enable
SFS-3504#
```

- Step 2** Enter the **configure** command to enter configuration mode.

```
SFS-3504# configure
SFS-3504(config)#
```

- Step 3** Enter the **ntp** command with the **server-one** keyword and the IP address of the primary NTP server, as shown in the following example:

```
SFS-3504(config)# ntp server-one 10.2.0.50
```

For more information, see the *Cisco SFS Product Family Command Reference*.

- Step 4** Save the configuration to preserve it between reboots by entering the **copy running-config startup-config** command:

```
SFS-3504(config)# exit
SFS-3504# copy running-config startup-config
```

## Launching the Chassis Manager (Optional GUI Interface)

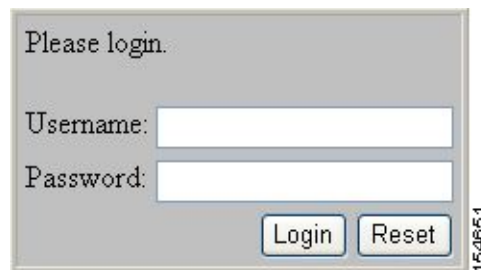
Chassis Manager is a web-based GUI that can be used to manage a single InfiniBand chassis.

To launch Chassis Manager, perform the following steps:

- 
- Step 1** Launch your web browser. Chassis Manager supports the following browsers:
- Microsoft Internet Explorer Version 6 or later
  - Netscape Navigator Version 6 or later
  - Mozilla Version 1.4 or later
- Step 2** Type the management IP address of your server switch in the address field of your browser, and press **Enter**. For details about obtaining a management IP address, see the [“Obtaining an IP Address from the DHCP Server for Ethernet Management”](#) section on page 13.

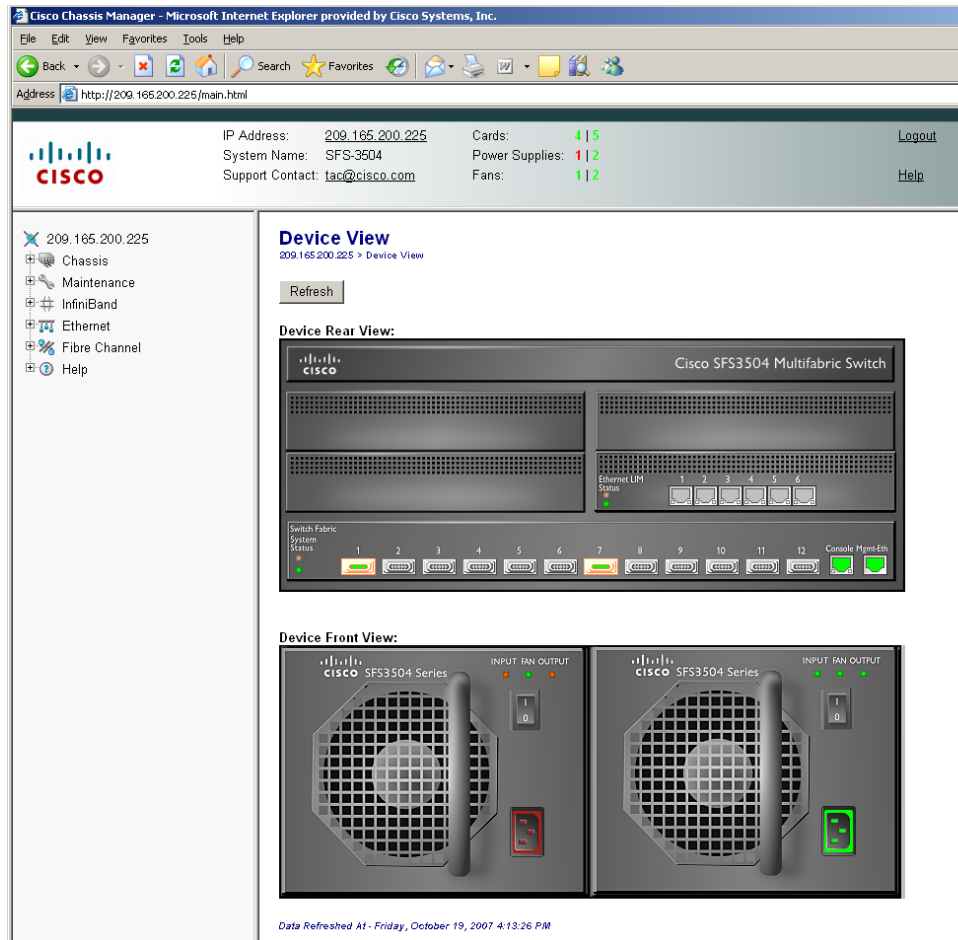
A log-in window opens. (See [Figure 10](#).)

**Figure 10** Chassis Manager Log-In Window



- Step 3** Enter your username and password in the log-in window, and click **Login**. The default username and password are **super** and **super**.

The Chassis Manager loads in your browser window. (See [Figure 11](#).) The ports that are operational in DDR speed are highlighted in your browser window in orange, and the other ports are operational as SDR ports. When the ports are operationally down, they are gray in color. (The example in [Figure 11](#) shows ports 1 and 7 in orange as DDR ports.)

**Figure 11**      **Chassis Manager**

For more information about Chassis Manager, see the *Cisco SFS Product Family Chassis Manager User Guide*.

## Installing the Element Manager GUI (Optional)

Element Manager runs on Linux, Solaris, and Windows platforms. Follow installation instructions for the appropriate platform. For more information about the Element Manager tasks, see the *Cisco SFS Product Family Element Manager User Guide*.

To install Element Manager, your system must meet the following requirements:

- 64 MB of available RAM
- 75 MB of available hard disk space and 50 MB of additional available hard disk space during installation
- 300-MHz processor
- 800 x 600 screen resolution with 16-bit color depth

## Linux Installation

To install Element Manager on Linux, perform the following steps:

- 
- Step 1** Log in to your Linux host.
  - Step 2** Download the Element Manager software from the Cisco Software Download Center:  
<http://www.cisco.com/public/sw-center/>
  - Step 3** Navigate to the Linux directory of the downloaded software.
  - Step 4** Locate the Linux files, choose the installer that is appropriate for your program, and proceed with the installation wizard.
- 

## Solaris Installation

To install Element Manager on Solaris, perform the following steps:

- 
- Step 1** Log in to your Solaris host.
  - Step 2** Download the Element Manager software from the Cisco Software Download Center:  
<http://www.cisco.com/public/sw-center/>
  - Step 3** Navigate to the em/Solaris directory of the downloaded software.
  - Step 4** Start the **install\_solaris\_sparc.bin** file. Proceed with the installation wizard.
- 

## Windows Installation

To install Element Manager on Windows, perform the following steps:

- 
- Step 1** Log in to your Windows host.
  - Step 2** Download the Element Manager software from the Cisco Software Download Center:  
<http://www.cisco.com/public/sw-center/>
  - Step 3** Navigate to the Windows directory of the downloaded software.
  - Step 4** Launch the executable file (install\_x86.exe) to begin the installation process.  
The Introduction screen appears.
  - Step 5** Click **Next**.  
The License Agreement screen appears.
  - Step 6** Read the license agreement, choose **I accept the terms of the license agreement**, and then click **Next**.  
The Choose Install Folder screen appears.
  - Step 7** Select a folder, and then click **Next**.  
The Choose Shortcut Folder screen appears.

- Step 8** Make selections as appropriate for your needs, and then click **Next**.  
The Pre-Installation Summary screen appears.
- Step 9** Verify installation information in the Please Review the Following Before Continuing window, and then click **Install**.
- Step 10** The installation executes.
- Step 11** Click **Done** when the installation completes.
- 

## Connecting to Element Manager

Factory defaults permit your server switch to connect to Element Manager. No configuration is necessary.

To connect to Element Manager, perform the following steps:

- 
- Step 1** Launch Element Manager. The Open Device - SFS Element Manager window appears.
- Step 2** In the Device Name or IP Address field, enter the IP address or the network name of the device that you want to manage.
- Step 3** In the SNMP Community field, enter this community string: **private**.
- Step 4** Click **Open** to establish a connection.
- 

## Connecting the 10/100 Ethernet Management Port

The autosensing 10/100 Ethernet management port is located on the rear panel/port connectors side of the Cisco SFS 3504 Server Switch. The Ethernet management port is used for out-of-band management of the Cisco SFS 3504 Server Switch.

Use the CAT-5 twisted pair RJ-45 straight-through cable to connect the 10/100 Ethernet management port to external hubs, switches, and routers.

## Troubleshooting

For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, Cisco Technical Support provides 24-hour technical assistance. The Cisco Technical Support Website on Cisco.com features extensive online support resources. In addition, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not hold a valid Cisco service contract, contact your reseller.

# Managing the Cisco SFS 3504 Server Switch

You can manage the Cisco SFS 3504 Server Switch by using one of the following methods:

- Command-line interface (CLI)—a text-based interface accessible through a direct serial connection, Telnet over IP, or SSH over IP.
- Element Manager (GUI)—A graphical interface installed on a workstation, accessible over IP.
- Chassis Manager (GUI)—A graphical interface that you access with a web browser.

For additional details, see the *Cisco SFS Product Family Command Reference*, the *Cisco SFS Product Family Element Manager User Guide*, or the *Cisco SFS Product Family Chassis Manager User Guide*.

## Safety Warning Translation

This section repeats, in multiple languages, the basic safety warning definition appropriate for the Cisco SFS 3504 Multifabric Server Switch.

### Statement 1071—Warning Definition



#### IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

#### SAVE THESE INSTRUCTIONS

#### Waarschuwing

#### BELANGRIJKE VEILIGHEIDSIINSTRUCTIES

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.

#### BEWAAR DEZE INSTRUCTIES

**Varoitus TÄRKEITÄ TURVALLISUUSOHJEITA**

Tämä varoitusmerkki merkitsee vaaraa. Tilanne voi aiheuttaa ruumiillisia vammoja. Ennen kuin käsittelet laitteistoa, huomioi sähköpiirien käsittelemiseen liittyvät riskit ja tutustu onnettomuuksien yleisiin ehkäisytapoihin. Turvallisuusvaroitusten käännökset löytyvät laitteen mukana toimitettujen käännettyjen turvallisuusvaroitusten joukosta varoitusten lopussa näkyvien lausuntonumeroiden avulla.

**SÄILYTÄ NÄMÄ OHJEET****Attention IMPORTANTES INFORMATIONS DE SÉCURITÉ**

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.

**CONSERVEZ CES INFORMATIONS****Warnung WICHTIGE SICHERHEITSHINWEISE**

Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.

**BEWAHREN SIE DIESE HINWEISE GUT AUF.****Avvertenza IMPORTANTI ISTRUZIONI SULLA SICUREZZA**

Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.

**CONSERVARE QUESTE ISTRUZIONI****Advarsel VIKTIGE SIKKERHETSINSTRUKSJONER**

Dette advarselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.

**TA VARE PÅ DISSE INSTRUKSJONENE**



**Aviso INSTRUÇÕES IMPORTANTES DE SEGURANÇA**

Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.

**GUARDE ESTAS INSTRUÇÕES****¡Advertencia! INSTRUCCIONES IMPORTANTES DE SEGURIDAD**

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

**GUARDE ESTAS INSTRUCCIONES****Varning! VIKTIGA SÄKERHETSANVISNINGAR**

Denna varningssignal signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanliga förfaranden för att förebygga olyckor. Använd det nummer som finns i slutet av varje varning för att hitta dess översättning i de översatta säkerhetsvarningar som medföljer denna anordning.

**SPARA DESSA ANVISNINGAR****Figyelem FONTOS BIZTONSÁGI ELOÍRÁSOK**

Ez a figyelmeztető jel veszélyre utal. Sérülésveszélyt rejte helyzetben van. Mielőtt bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplő figyelmeztetések fordítása a készülékhez mellékelt biztonsági figyelmeztetések között található; a fordítás az egyes figyelmeztetések végén látható szám alapján kereshető meg.

**ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!****Предупреждение ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ**

Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.

**СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ**

**警告** 重要的安全性说明

此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到此设备的安全性警告说明的翻译文本。

请保存这些安全性说明

**警告** 安全上の重要な注意事項

「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。

これらの注意事項を保管しておいてください。

**주의** 중요 안전 지침

이 경고 기호는 위험을 나타냅니다. 작업자가 신체 부상을 일으킬 수 있는 위험한 환경에 있습니다. 장비에 작업을 수행하기 전에 전기 회로와 관련된 위험을 숙지하고 표준 작업 관례를 숙지하여 사고를 방지하십시오. 각 경고의 마지막 부분에 있는 경고문 번호를 참조하여 이 장치와 함께 제공되는 번역된 안전 경고문에서 해당 번역문을 찾으십시오.

이 지시 사항을 보관하십시오.

**Aviso** INSTRUÇÕES IMPORTANTES DE SEGURANÇA

**Este símbolo de aviso significa perigo. Você se encontra em uma situação em que há risco de lesões corporais. Antes de trabalhar com qualquer equipamento, esteja ciente dos riscos que envolvem os circuitos elétricos e familiarize-se com as práticas padrão de prevenção de acidentes. Use o número da declaração fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham o dispositivo.**

**GUARDE ESTAS INSTRUÇÕES****Advarsel** VIGTIGE SIKKERHEDSANVISNINGER

**Dette advarselssymbol betyder fare. Du befinder dig i en situation med risiko for legemeskade. Før du begynder arbejde på udstyr, skal du være opmærksom på de involverede risici, der er ved elektriske kredsløb, og du skal sætte dig ind i standardprocedurer til undgåelse af ulykker. Brug erklæringsnummeret efter hver advarsel for at finde oversættelsen i de oversatte advarsler, der fulgte med denne enhed.**

**GEM DISSE ANVISNINGER****تحذير****إرشادات الأمان الهامة**

يوضح رمز التحذير هذا وجود خطر. وهذا يعني أنك متواجد في مكان قد ينتج عنه التعرض لإصابات. قبل بدء العمل، احذر مخاطر التعرض للصدمات الكهربائية وكن على علم بالإجراءات القياسية للحيلولة دون وقوع أي حوادث. استخدم رقم البيان الموجود في آخر كل تحذير لتحديد مكان ترجمته داخل تحذيرات الأمان المترجمة التي تأتي مع الجهاز. قم بحفظ هذه الإرشادات

**Upozorenje VAŽNE SIGURNOSNE NAPOMENE**

Ovaj simbol upozorenja predstavlja opasnost. Nalazite se u situaciji koja može prouzročiti tjelesne ozljede. Prije rada s bilo kojim uređajem, morate razumjeti opasnosti vezane uz električne sklopove, te biti upoznati sa standardnim načinima izbjegavanja nesreća. U prevedenim sigurnosnim upozorenjima, priloženima uz uređaj, možete prema broju koji se nalazi uz pojedino upozorenje pronaći i njegov prijevod.

**SAČUVAJTE OVE UPUTE****Upozornění DŮLEŽITÉ BEZPEČNOSTNÍ POKYNY**

Tento upozorňující symbol označuje nebezpečí. Jste v situaci, která by mohla způsobit nebezpečí úrazu. Před prací na jakémkoliv vybavení si uvědomte nebezpečí související s elektrickými obvody a seznámte se se standardními opatřeními pro předcházení úrazům. Podle čísla na konci každého upozornění vyhledejte jeho překlad v přeložených bezpečnostních upozorněních, která jsou přiložena k zařízení.

**USCHOVEJTE TYTO POKYNY****Προειδοποίηση ΣΗΜΑΝΤΙΚΕΣ ΟΔΗΓΙΕΣ ΑΣΦΑΛΕΙΑΣ**

Αυτό το προειδοποιητικό σύμβολο σημαίνει κίνδυνο. Βρίσκεστε σε κατάσταση που μπορεί να προκαλέσει τραυματισμό. Πριν εργαστείτε σε οποιοδήποτε εξοπλισμό, να έχετε υπόψη σας τους κινδύνους που σχετίζονται με τα ηλεκτρικά κυκλώματα και να έχετε εξοικειωθεί με τις συνήθειες πρακτικές για την αποφυγή ατυχημάτων. Χρησιμοποιήστε τον αριθμό δήλωσης που παρέχεται στο τέλος κάθε προειδοποίησης, για να εντοπίσετε τη μετάφρασή της στις μεταφρασμένες προειδοποιήσεις ασφαλείας που συνοδεύουν τη συσκευή.

**ΦΥΛΑΞΤΕ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ****אזהרה****הוראות בטיחות חשובות**

סימן אזהרה זה מסמל סכנה. אתה נמצא במצב העלול לגרום לפציעה. לפני שתעבוד עם ציוד כלשהו, עליך להיות מודע לסכנות הכרוכות במעגלים חשמליים ולהכיר את הנהלים המקובלים למניעת תאונות. השתמש במספר ההוראה המסופק בסופה של כל אזהרה כדי לאתר את התרגום באזהרות הבטיחות המתורגמות שמצורפות להתקן.

**שמור הוראות אלה****Опoмeнa**

пoстoи кaј eлeктpичнитe кoлa и тpeбa дa ги пoзнaвaтe стaндapднитe пoстaпки зa спpeчyвaњe нa нeспpeкни слyчaи. Искoристeтe гo бpoјoт нa изјaвaтa штo ce нaoѓa нa кpaјoт нa сeкoe пpeдyпpeдyвaњe зa дa гo нaјдeтe нeгoвиoт пepиoд вo пpeвeдeнитe бeзбeднocни пpeдyпpeдyвaњa штo ce испoрaчaни co ypeдoт. ЧУВАЈТЕ ГИ ОБИЕ НАПАТСТВИЈА

**Ostrzeżenie WAŻNE INSTRUKCJE DOTYCZĄCE BEZPIECZEŃSTWA**

Ten symbol ostrzeżenia oznacza niebezpieczeństwo. Zachodzi sytuacja, która może powodować obrażenia ciała. Przed przystąpieniem do prac przy urządzeniach należy zapoznać się z zagrożeniami związanymi z układami elektrycznymi oraz ze standardowymi środkami zapobiegania wypadkom. Na końcu każdego ostrzeżenia podano numer, na podstawie którego można odszukać tłumaczenie tego ostrzeżenia w dołączonym do urządzenia dokumencie z tłumaczeniami ostrzeżeń.

**NINIEJSZE INSTRUKCJE NALEŻY ZACHOWAĆ**

**Upozornenie DÔLEŽITÉ BEZPEČNOSTNÉ POKYNY**

Tento varovný symbol označuje nebezpečenstvo. Nachádzate sa v situácii s nebezpečenstvom úrazu. Pred prácou na akomkoľvek vybavení si uvedomte nebezpečenstvo súvisiace s elektrickými obvodmi a oboznámte sa so štandardnými opatreniami na predchádzanie úrazom. Podľa čísla na konci každého upozornenia vyhľadajte jeho preklad v preložených bezpečnostných upozorneniach, ktoré sú priložené k zariadeniu.

**USCHOVAJTE SI TENTO NÁVOD**

**Opozorilo POMEMBNI VARNOSTNI NAPOTKI**

Ta opozorilni simbol pomeni nevarnost. Nahajate se v situaciji, kjer lahko pride do telesnih poškodb. Preden pričnete z delom na napravi, se morate zavedati nevarnosti udara električnega toka, ter tudi poznati preventivne ukrepe za preprečevanje takšnih nevarnosti. Uporabite obrazložitevno številko na koncu posameznega opozorila, da najdete opis nevarnosti v priloženem varnostnem priročniku.

**SHRANITE TE NAPOTKE!**

**警告**

**重要安全性指示**

此警告符號代表危險，表示可能造成人身傷害。使用任何設備前，請留心電路相關危險，並熟悉避免意外的標準作法。您可以使用每項警告後的聲明編號，查詢本裝置隨附之安全性警告譯文中的翻譯。請妥善保留此指示

## Related Documentation

For additional information about the Cisco SFS 3504 Server Switch and command-line interface (CLI) commands, see the following documentation:

- *Regulatory Compliance and Safety Information for the Cisco Server Fabric Switches: 7000D, 7000P, 7008P, 7012, 7024, 3012R, and 3504*
- *Cisco SFS 3504 Multifabric Server Switch Installation Guide*
- *Cisco SFS Product Family Command Reference*
- *Cisco SFS Product Family Element Manager User Guide*
- *Cisco SFS Product Family Chassis Manager User Guide*
- *Cisco Server Fabric Switches Rack Shelf Kit Installation Guide*
- *Cisco SFS InfiniBand Software Configuration Guide*

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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This document is to be used in conjunction with the documents listed in the [“Related Documentation”](#) section.

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